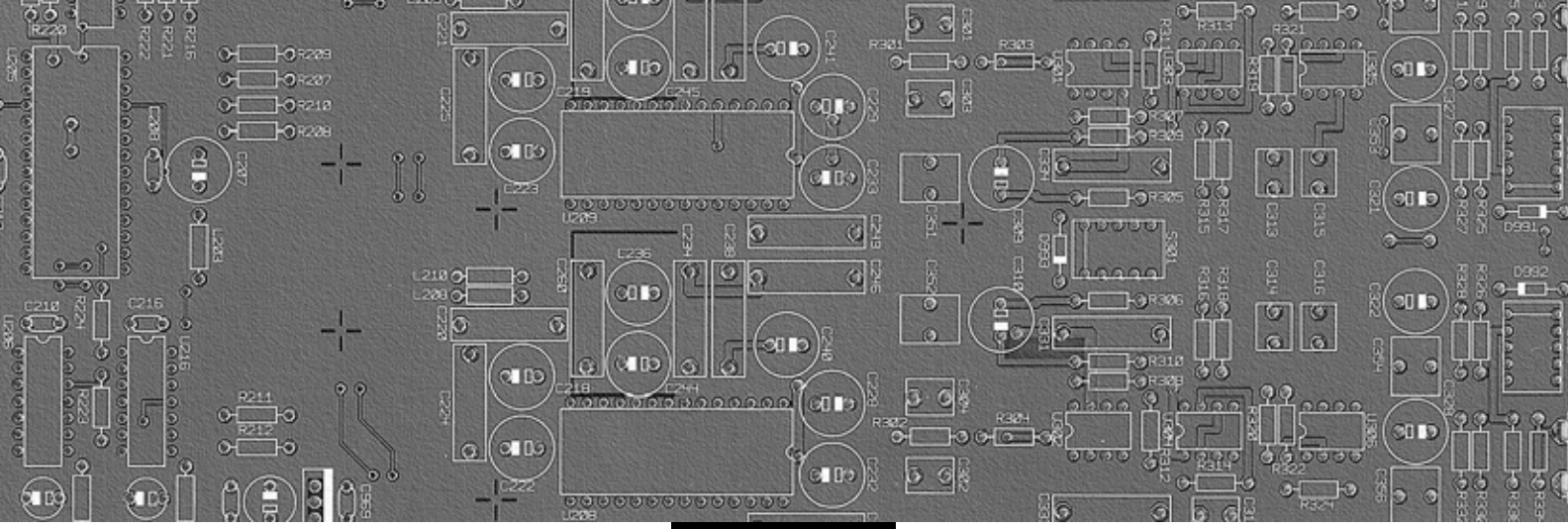


ROTEL

Owner's Manual

RC-1082

Stereo Control Amplifier

Important Safety Information

WARNING: There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, be sure that the apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall. Take the unit to a qualified service person for inspection and necessary repairs.

Read all the instructions before connecting or operating the component. Keep this manual so you can refer to these safety instructions.

Heed all warnings and safety information in these instructions and on the product itself. Follow all op erating instructions.

Clean the enclosure only with a dry cloth or a vacuum cleaner.

You must allow 10 cm or 4 inches of unobstructed clearance around the unit. Do not place the unit on a bed, sofa, rug, or similar surface that could block the ventilation slots. If the component is placed in a bookcase or cabinet, there must be ventilation of the cabinet to allow proper cooling.

Keep the component away from radiators, heat registers, stoves, or any other appliance that produces heat.

The unit must be connected to a power supply only of the type and voltage specified on the rear panel of the unit.

Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable in any way. Do not attempt to defeat grounding and/or polarization provisions. Do not use extension cords.

Do not route the power cord where it will be crushed, pinched, bent at severe angles, exposed to heat, or damaged in any way. Pay particular attention to the power cord at the plug and where it exits the back of the unit.

Main plug is used as the mains disconnect device and shall remain ready accessible.

The power cord should be unplugged from the wall outlet if the unit is to be left unused for a long period of time.

The apparatus shall be connected to a mains socket outlet with a protective earthing connection.

Immediately stop using the component and have it inspected and/or serviced by a qualified service agency if:

- The power supply cord or plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit shows signs of improper operation
- The unit has been dropped or damaged in any way

Please use Class 2 Wiring when connecting the speaker terminals of the unit to ensure proper insulation and minimize the risk of electrical shock.

Place the unit on a fixed, level surface strong enough to support its weight. Do not place it on a moveable cart that could tip over.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

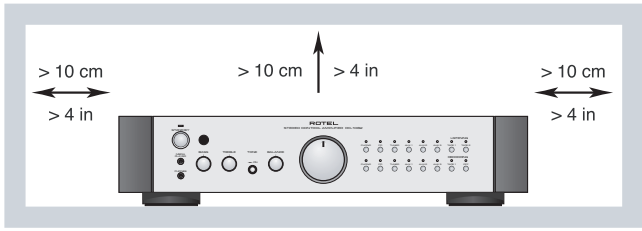
APPLICABLE FOR USA, CANADA OR WHERE APPROVED FOR THE USAGE

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT. INSERT FULLY.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU AU FOND.

This symbol is to alert the user to the presence of uninsulated dangerous voltages inside the product's enclosure that may constitute a risk of electric shock.

This symbol is to alert the user to important operating and maintenance (service) instructions in this manual and literature accompanying the product.



Rotel products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheelie bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.

This symbol means that this unit is double insulated.
An earth connection is not required.

CE

Figure 1: Controls and Connections

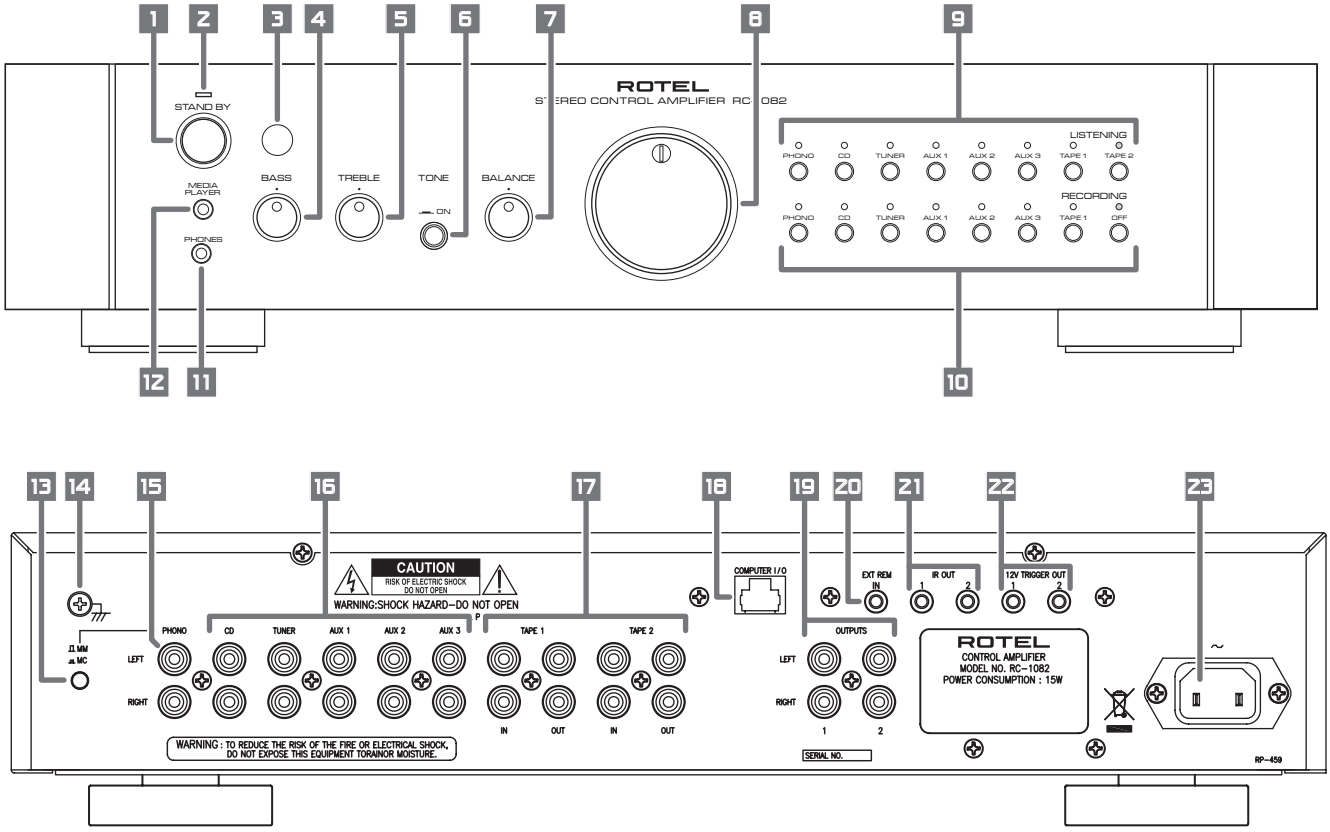


Figure 2: RR-AT97 Remote Control

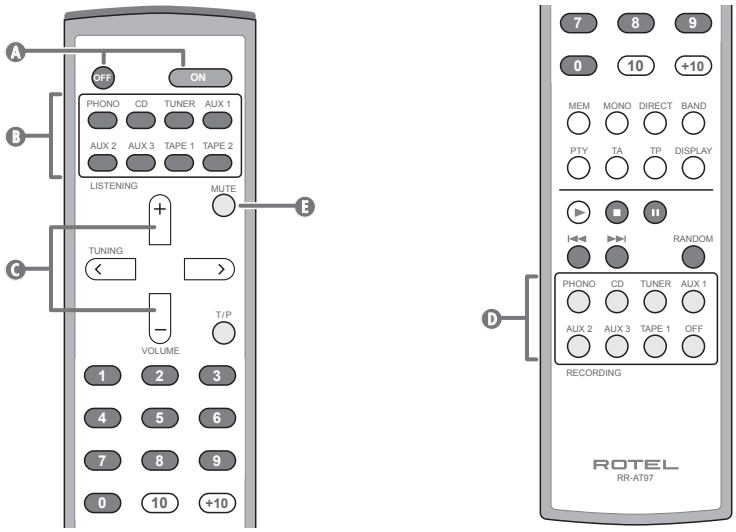
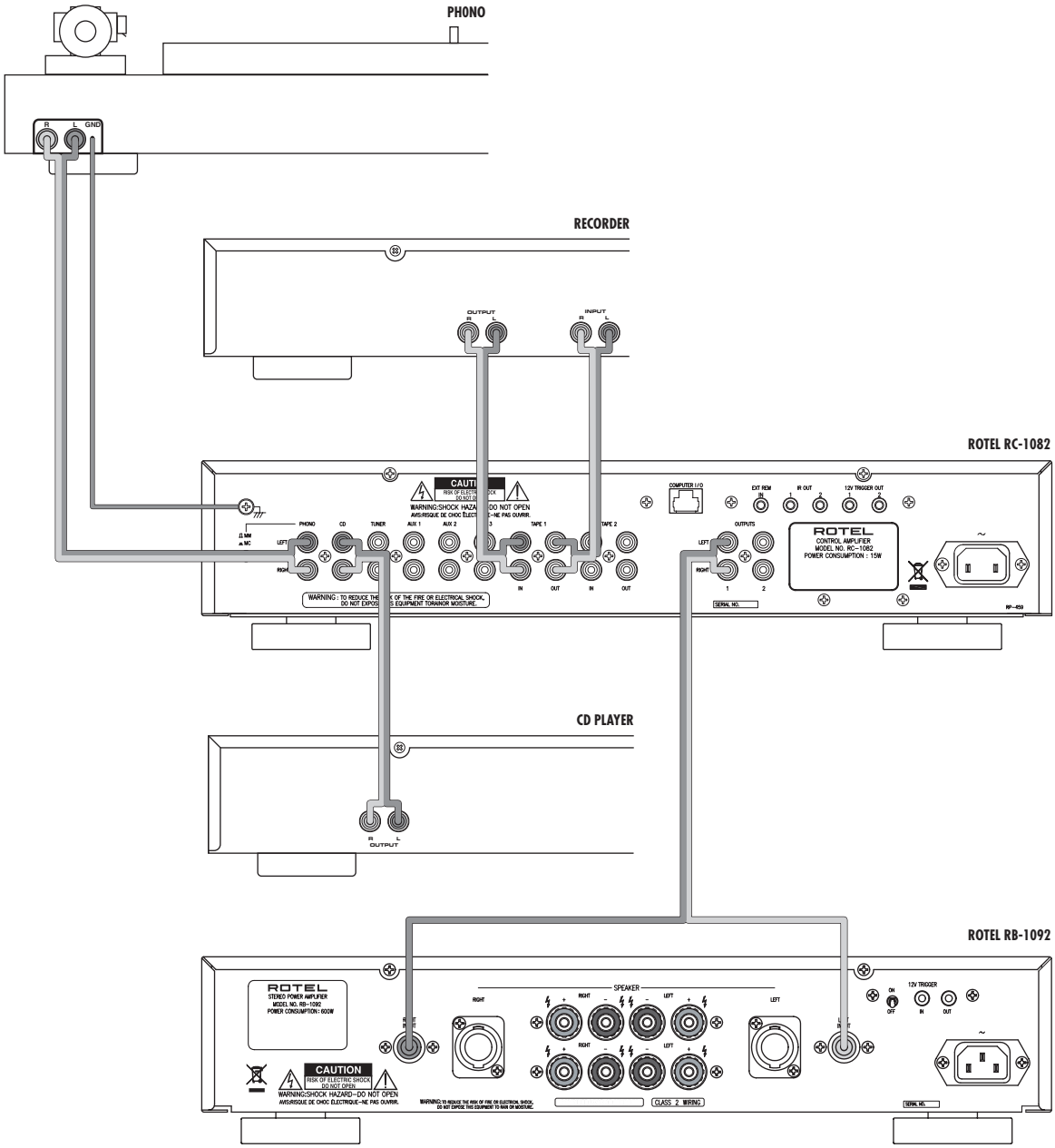


Figure 3: Input and Output Connections



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About Rotel

A family whose passionate interest in music led them to manufacture high fidelity components of uncompromising quality founded Rotel 45 years ago. Over the years that passion has remained undiminished and the goal of providing exceptional value for audiophiles and music lovers regardless of their budget, is shared by all Rotel employees.

The engineers work as a close team, listening to, and fine tuning each new product until it reaches their exacting musical standards. They are free to choose components from around the world in order to make that product the best they can. You are likely to find capacitors from the United Kingdom and Germany, semiconductors from Japan or the United States, and toroidal power transformers manufactured in Rotel's own factory.

Rotel's reputation for excellence has been earned through hundreds of good reviews and awards from the most respected reviewers in the industry, who listen to music every day. Their comments keep the company true to its goal – the pursuit of equipment that is musical, reliable and affordable.

All of us at Rotel thank you for buying this product and hope it will bring you many hours of enjoyment.

Getting Started

Thank you for purchasing the Rotel RC-1082 Stereo Control Amplifier. When used in a high-quality music audio system, it will provide years of musical enjoyment.

The RC-1082 is a full featured, high performance preamplifier. All aspects of the design have been optimized to retain the full dynamic range and subtle nuances of your music. The RC-1082 has a highly regulated power supply incorporating a Rotel custom-designed toroidal power transformer and custom-made slit foil capacitors. This low impedance power supply has ample power reserves, which enables the RC-1082 to easily reproduce the most demanding audio signals. This type of design is more expensive to manufacture, but it is better for the music.

The RC-1082 printed circuit boards (PCB) are designed with Symmetrical Circuit Traces. This insures that the precise timing of the music is maintained and faithfully recreated. The RC-1082 circuitry uses metal film resistors and polystyrene or polypropylene capacitors in important signal paths. All aspects of this design have been examined with the final goal being faithful reproduction of music.

The RC-1082 has a superb phono preamp stage, derived from Rotel's finest phono preamplifier, the RHQ 10. The preamp stage can be used with either a moving magnet (MM) or a moving coil (MC) phono cartridge. This shows our commitment to phono sound quality and our interest in the recreation of fine music.

The RC-1082 is straightforward in its installation and operation. If you have experience with other stereo systems, you shouldn't find anything perplexing. Simply plug in the associated components and enjoy.

A Few Precautions

Please read this manual carefully. It provides complete information on how to incorporate the RC-1082 into your system as well as general information that will help you get optimum sound performance. Please contact your authorized Rotel dealer for answers to any questions you might have. In addition, all of us at Rotel welcome your questions and comments.

Save the RC-1082 shipping carton and all enclosed packing material for future use. Shipping or moving the RC-1082 in anything other than the original packing material may result in severe damage to your amplifier.

Fill out and send in the owner's registration card packed with the RC-1082. Also be sure to keep the original sales receipt. It is your best record of the date of purchase, which you will need in the event warranty service is ever required.

Placement
Like all audio components that handle low-level signals, the RC-1082 can be affected by its environment. Do not stack the RC-1082 on top of a power amplifier. This will minimize chance it will pick up hum or interference. We recommend installing the RC-1082 in furniture designed to house audio components. Such furniture is designed to reduce or suppress vibration which can adversely affect sound quality. Ask your authorized Rotel dealer for advice about component furniture and proper installation of audio components.

Cables
Be sure to keep the power cords, digital signal cables and regular audio signal cables in your installation away from each other. This will minimize the chance of the regular audio signal cables picking up noise or interference from the power cords or digital cables. Using only high quality, shielded cables will also help to prevent noise or interference from degrading the sound quality of your system. If you have any questions see your authorized Rotel dealer for advice about the best cable to use with your system

RR-AT97 Remote Control

The RC-1082 includes a full-function remote control that performas most of the fuunctions of the front panel controls. In addition it can operate many of the controls on other Rotel components. See the "Controlling Other Components" section of this manual for more information.

Most of the RR-AT97 functions duplicate the front panel controls. In this manual the remote control functions are covered in the same section as the front panel control operation. Numbers in gray boxes such as 1 indicate items on the front and rear panel control and connection illustrations. See Figure 1 on page 3. Letters in gray circles such as Ⓐ indicate items on the RR-AT97 illustration. See Figure 2 on page 3.

Remote Sensor 3
The Remote Sensor is located to the right of the Phones jack on the front panel. It picks up the infra-red signals from the remote control. Do not cover or block the sensor. It must be clear of obstructions or the remote control will not work properly. The operation of the Remote Sensor can also be affected if it is exposed to bright light, particularly sun light. In addition remote control functions may not work reliably if the batteries in the RR-AT97 are weak.

AC Power and Control

AC Power Input 23

NOTE: *The RC-1082 will be turned on and in the normal operating mode as soon as it is connected to the AC outlet. Be sure to set the Volume control to the minimum (full counterclockwise) position before connecting the power cord.*

Connect the supplied power cord to the AC Input receptacle on the rear panel. Do not connect the power cord to the power outlet until all the audio input and output connections have been made.

It is usually best to plug the RC-1082 directly into a 2-pin polarized wall outlet. Avoid the use of extension cords. A heavy duty multi-tap power outlet strip may be used if it (and the wall outlet) is rated to handle the current demanded by the components connected to it.

Your RC-1082 is configured at the factory for the proper AC line voltage in the country where you purchased it (either 120 volts AC or 230 volts AC with a line frequency of either 50 Hz or 60 Hz). The AC line configuration is noted on a decal on the rear panel.

NOTE: *Should you move your RC-1082 amplifier to another country, it is possible to reconfigure your amplifier for use on a different line voltage. Do not attempt to perform this conversion yourself. Opening the enclosure of the RC-1082 exposes you to dangerous voltages. Consult a qualified service person or the Rotel factory service department for information.*

If you are going to be away from home for an extended period of time such as a month-long vacation, it is a sensible precaution to unplug your amplifier (as well as other audio and video components) while you are away.

STANDBY Switch 1
Remote OFF/ON Switch Ⓐ
STANDBY Indicator 2
The STANDBY switch 1 is located on the left side of the front panel. When the RC-1082 is first plugged into a power outlet it will be in "operation" mode and the Standby indicator 2 will be lit.

In addition the indicators above the selected Listening and Recording input buttons 9 10 will light. Press the front panel Standby switch again, or the "Off" button on the remote, to return the RC-1082 to "standby" mode.

NOTE: *The RC-1082 will be turned on and in the normal operating mode as soon as it is connected to the AC outlet. Be sure to set the Volume control to the minimum (full counterclockwise) position before connecting the power cord.*

Input Signal Connections 15 and 16

[See Figure 3.]

The RC-1082 has conventional RCA-type connectors for all inputs.

NOTE: *To prevent loud noises that neither you nor your speakers will appreciate, make sure the system is turned off when you make any signal connections.*

Line Level Inputs 16
The CD, Tuner, and Aux inputs of the RC-1082 are "line level" inputs. These are for connecting the analog outputs from components such as CD players, DVD players, video disc recorders, tuners for audio or video, or VCRs.

The Left and Right channels are clearly labeled and should be connected to the corresponding channels of the source component. The Left RCA connectors are white, the Right connectors are red. Use high quality RCA cables for connecting input source components to the RC-1082. Ask your authorized Rotel dealer for advice about cables.

Phono Input Selector Switch 13

The Phono input is for a moving magnet (MM) or moving coil (MC) phono cartridge only and is incompatible with line level components. Set the Phono Input Selector Switch as appropriate for the phono cartridge you are using. Leave the switch button in the out position for a moving magnet cartridge; push the switch in for a moving coil cartridge.

Some high output moving coil cartridges are designed to operate in the moving magnet position. If you are in doubt about the correct setting, check the instruction manual for your phono cartridge for information regarding its output voltage and the expected input impedance. The Phono input has 47 kOhms input impedance and 2.5 mV sensitivity in the MM position and 100 Ohms input impedance and 0.25 mV sensitivity in the MC position. If you still have questions about the proper setting of the phono input selector switch, consult your authorized Rotel dealer.

Phono Input 15 and Ground 14 Connection

Plug the cable from the turntable into the appropriate left and right phono inputs. If the turntable has a "ground" wire connect it to the screw terminal to the left of the Phono inputs. It will help prevent hum and noise.

Recorder Connections 17

The Tape 1 and Tape 2 inputs and outputs can be connected to any record/playback device that accepts standard line level analog input and output signals. Typically that will be a conventional tape recorder.

When connecting a recorder to the RC-1082, remember that the outputs of the recorder must be connected to the tape inputs of the RC-1082. Similarly the tape outputs of the RC-1082 must be connected to the inputs of the recorder. As with other sources be sure to connect the Left and Right channels of each device to the proper channels on the associated components. Use high quality connecting cables to prevent loss of sound quality.

Output Connections 19

Most RCA-type output connectors are compatible with most power amplifiers. As always, use high quality cables and be sure to connect the Left and Right channel outputs of the RC-1082 to the correct channels of the amplifier.

NOTE: *There are two sets of RCA outputs on the RC-1082. The second set of outputs may be used in custom system configurations to drive a second power amplifier or to supply a signal to a special signal processor.*

12 Volt Trigger Outlet 22

Some audio components can be turned on automatically when they receive a 12V turn on "signal". The 12V Trigger Outputs of RC-1082 provides the required signal. Connect the compatible components to the RC-1082 with a conventional 1/8" miniplug cable. When the RC-1082 is in Standby mode, the trigger signal is interupted, so the components controlled by it are turned off.

IR Inputs and Outputs

External Remote Input 20

This 3.5 mm mini-jack (labeled EXT REM IN) receives command codes from an industry-standard infrared receivers (Xantech, etc.) located in the main listening room. This feature is useful when the unit is installed in a cabinet and the front-panel sensor is blocked. Consult your authorized Rotel dealer for information on external receivers and the proper wiring of a jack to fit the mini-jack receptacle.

NOTE: *The IR signals from the EXTERNAL REMOTE IN jack can be relayed to source components using external IR emitters or hardwired connections from the IR OUT jacks.*

IR Output 21

The IR OUT 1 and 2 jacks send IR signals received at the EXTERNAL REM IN jack to an infrared emitter placed in front of a source component or to other Rotel compoents with compatible rear panel IR input connectors.

This output is used to allow IR signals to pass along IR signals from a remote control when the sensors on the source components are blocked by installation in a cabinet.

See your authorized Rotel dealer for information on IR repeater systems.

NOTE: *The EXT REM IN jack located next to these jacks is for use with an external IR sensor duplicating the front panel IR sensor and located in the primary zone.*

12V Trigger Connections 22

Many Rotel amplifiers offer the option of turning them on and off using a 12 volt trigger signal sent to them. The RC-1082 provides two 12 volt trigger outputs. When the RC-1082 is turned on, a 12 volt DC signal is sent to the amplifiers to turn them on. When the RC-1082 is put in STANDBY mode, the trigger signal is interrupted and the amplifiers turn off.

To use the remote turn on feature, connect one of the RC-1082 12V TRIGGER OUT jacks to the 12 volt trigger input of a Rotel amplifier, using a cable with mono 3.5 mm mini-plugs on both ends. The +12 V DC signal appears at the "tip" connector.

Computer I/O Connector 18

The RC-1082 can be operated from a personal computer running audio system control software from third-party developers. This control is accomplished by sending the operating codes normally sent by the RR-AT97 remote control over a hard-wired network connection from the computer.

The COMPUTER I/O input provides the necessary connection on the back panel. It accepts standard RJ-45 8-pin modular plugs, such as those commonly used in 10-BaseT UTP Ethernet cabling.

For additional information on the connections, software, and operating codes for computer control of the RC-1082, contact your authorized Rotel dealer.

Phones Output 11

The Phones output allows you to connect headphones for private listening. This output accommodates standard 1/8" stereo mini plugs. If your headphones have a 1/4" plug you will need an adapter plug. Contact your authorized Rotel dealer, to get the correct adapter plug. Note: Plugging in a set of headphones does not cut off the signal to the outputs. The power amplifier will continue to receive a signal and the speakers will continue to play.

Media Player Input 12

A 3.5mm (1/8") stereo input socket for a "Media Player" is provided on the front of the RC-1082 and is selected by pressing the AUX 3 Listening input buttons.

Any portable stereo cassette, compact disc player or hard disc playback device can be connected via this input. If the Media Player input is connected to the headphone outputs of the player note that you may need to adjust the volume control on the player for sound to be heard. If the sound is loud and distorted turn down the volume on the player. If the sound is not loud enough, even when the RC-1082 volume control is turned up fairly high, then carefully turn up the volume control on the player.

NOTE: *When the 3.5mm (mini jack) is inserted into the Media Player socket the rear input called AUX3 is disconnected. Removing the 3.5mm plug from the Media player socket will allow the rear AUX3 input to function.*

Audio Controls

Volume Controls B and C

The front panel Volume control B increases or decreases the volume in both channels at the same time. Turn it clockwise to increase the volume or counterclockwise to decrease the volume. On the RR-AT97 remote use the Volume + and – buttons C to increase or decrease the volume level.

Mute Buton E

Remote Only

Push the MUTE button on the remote once to turn the sound off. An indication appears in the front panel. Press the button again to restore previous volume levels. The LED in the volume control will flash when the unit is muted.

NOTE: *Pressing the volume buttons on the* remote also cancsels the muting function.

Balance Control 7

The Balance Control adjusts the left-to-right balance of the sound output. Normally the control should be in the center position. In some situations, typically when the main listening position is not ideally centered between the speakers, it may be necessary to adjust the control to achieve proper left-to-right balance. Turning the control counter-clockwise shifts the sound balance to the left. Turning the control clockwise shifts the sound balance to the right.

Tone On/Off Switch 6

When the Tone Switch is in the Off (out) position the Bass and Treble Control circuits are bypassed to ensure the purest possible sound. Leave the Tone Switch in the Off position unless you want to use the Tone Controls. Push in the Tone Switch if you want to adjust the Tone Controls.

Bass and Treble Controls 4 5

When the Tone Switch is pushed in, turning the Bass and Treble Controls adjusts the tone balance of the sound. Turn the Controls clockwise to increase the bass or treble output. Turn the Controls counterclockwise to decrease the bass or treble output.

A properly set up high-performance audio system produces the most natural sound with little or no adjustment of the tone controls. Use these controls sparingly. Be particularly careful when turning the controls up (clockwise). This increases the power output in the bass or treble range, increasing the load on the amplifier sand speakers.

Listening Selector Buttons 9 8

Press one of the Listening Selector Buttons to select the input signals that goes to the main outputs and to the power amplifier – or, more simply, which source is heard.

Recording Selector Buttons 10 D

Press one of the Recording Selector Buttons to select the input signal that goes to the record outputs. When you are not recording, press the Off button. This minimizes the chance of interference from other components in the system.

Having a separate Recording and Listening selector adds a significant degree of flexibility in how you can use the RC-1082. For example by selecting CD with the Record Selector and selecting Tuner with the Listening Selector you can record a CD onto a tape while listening to the tuner.

If you have a three-head recorder or a DAT recorder that allows simultaneous read and write operation, you can monitor your recording by setting the LISTENING switch to the TAPE 1 or TAPE 2 position.

NOTE: *If you wish to duplicate ("dub") a recording from one recorder to another, the source unit must be connected to Tape 1 in/outputs. Press the Tape 1 Recording Selector button. Connect the unit recording the signal to the Tape 2 in/outputs.*

Controlling Other Components

In addition to operating many of the controls of the RC-1082, the RR-AT97 remote control can operate basic features of some Rotel CD players, DVD players, and AM/FM tuners.

CD Functions

The ► PLAY, ■ STOP, II PAUSE, ⏮ ⏭ TRACK and, RANDOM buttons, and NUMERIC keys (0 - +10) operate many Rotel CD players after the CD Listening button on the remote has been pressed.

DVD Functions

The ► PLAY, ■ STOP, II PAUSE, ⏮ ⏭ TRACK and RANDOM buttons operate Rotel DVD players, after the AUX1 Listening button on the remote has been pressed.

Tuner Functions

The BAND, TUNING ◄►, and additional tuning feature buttons (PTY, TA, TP, etc.) operate Rotel tuners, after the TUNER listening button on the remote has been pressed.

NOTE: *By default, the RR-AT97 operates the Rotel RT-1080/RT-961/RT-955 tuners. The remote can be reprogrammed to operate the RT-940AX tuner. This programming only needs to be done once:*
To program for the RT-940AX: *press the ON button and the 2 button simultaneously.*
To program for the RT-1080/ RT-961/RT-955: *press the ON button and the 1 button simultaneously.*

Troubleshooting

Most difficulties in audio systems are the result of incorrect connections, or improper control settings. If you encounter problems, isolate the area of the difficulty, check the control settings, determine the cause of the fault and make the necessary changes. If you are unable to get sound from the RC-1082, refer to the suggestions for the following conditions:

Standby Power Indicator Is Not Lit

The Standby Power Indicator should be lit whenever the RC-1082 is plugged into the wall power outlet. If it does not light, test the power outlet with another electrical device, such as a lamp. Be sure the power outlet being used is not controlled by a switch that has been turned off.

Fuse Replacement

If another electrical device works when plugged into the power outlet, and the Standby Indicator still will not light when the RC-1082 is plugged into the wall outlet, it indicates that the internal power fuse may have blown. If you believe this has happened, contact your authorized Rotel dealer to get the fuse replaced.

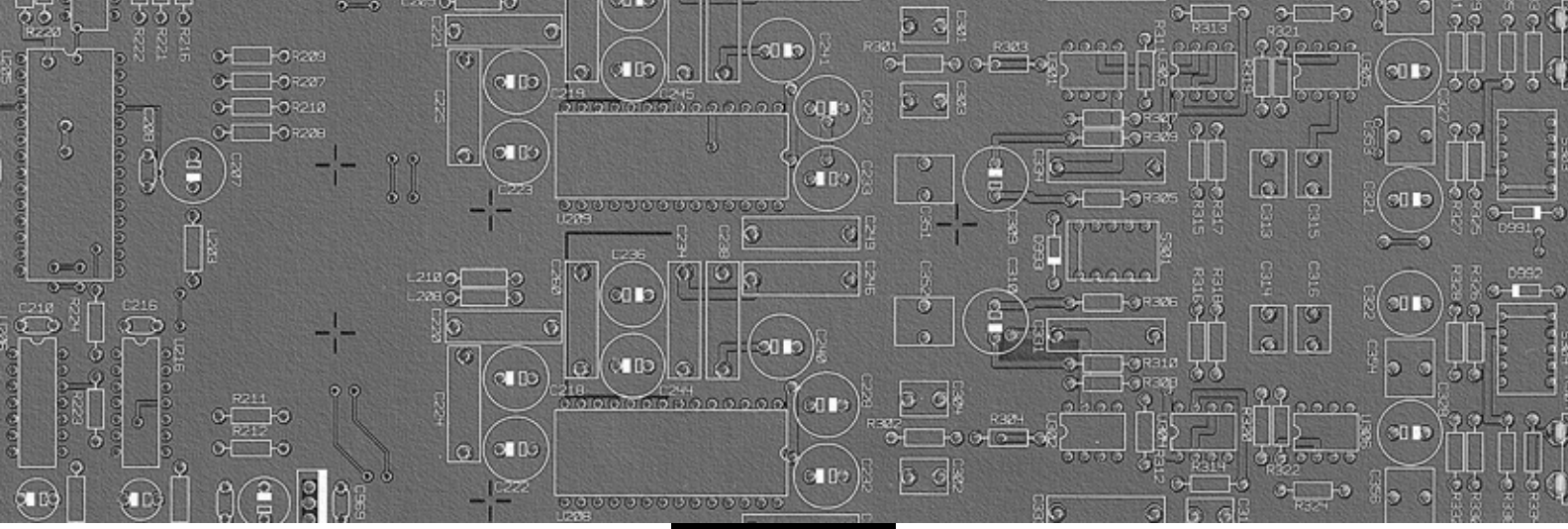
No Sound

Check the signal source to see if it is functioning properly. Make sure the cables from the signal source to the RC-1082 inputs are connected properly. Be sure the Listening Selector is set to the proper input. Check the power amplifier for power and proper operation. Check all the wiring between the RC-1082 and the power amplifier, and the power amplifier and speakers.

Specifications

Total Harmonic Distortion (20Hz-20kHz)	< 0.004%
Intermodulation Distortion (60 Hz : 7 kHz, 4:1)	< 0.004% at 1V output
Input Sensitivity / Impedance	
Phono - MC	250 µV / 100 ohms
Phono - MM	2.5 mV / 47 kOhms
Line Level	150 mV / 220 kOhms
Phono Overload (MC/MM)	16 mV / 160 mV
Output Sensitivity / Impedance	1 V/ 100 Ohms
Frequency Response	
Phono Input	20Hz-20kHz, ± 0.2dB
Line Level Input	4Hz-100kHz, ± 0.5dB
Signal to Noise Ratio (IHF "A" weighted)	
Phono - MC/MM	70 dB/75 dB
Line Level	100 dB
Power Requirements	
USA Version	120 Volts, 60 Hz
European Version	230 Volt, 50 Hz
Power Consumption	15 Watts
Standby Power Consumption	2.5 Watts
Dimensions (W x H x D)	432 x 92 x 344 mm 17 x 3 5/8 x 13 9/16"
Weight (net)	7.5 kg, 16.53 lbs.

All specifications are accurate at the time of printing.
Rotel reserves the right to make improvements without notice.



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